

Heath

FEB. FLYER

OF ELECTRONIC SPECIALS

This is YOUR Flyer - written to sell merchandise, sure - but also to offer helpful suggestions and information for our customers where we can. Maybe there is something we can include to help you, or perhaps you have a suggestion to pass on to our other customers; if so, please write us, and your interest will be greatly appreciated. Please keep in mind, though, that the Heath Company is primarily a manufacturer of radio and electronic equipment in kit form, and while we have surplus items available, we make no attempt to stock a complete line of radio needs. You will help us to help you more efficiently if you will not write to inquire about items we do not advertise, but will send your inquiries to one of the many fine radio supply houses located in the larger cities.

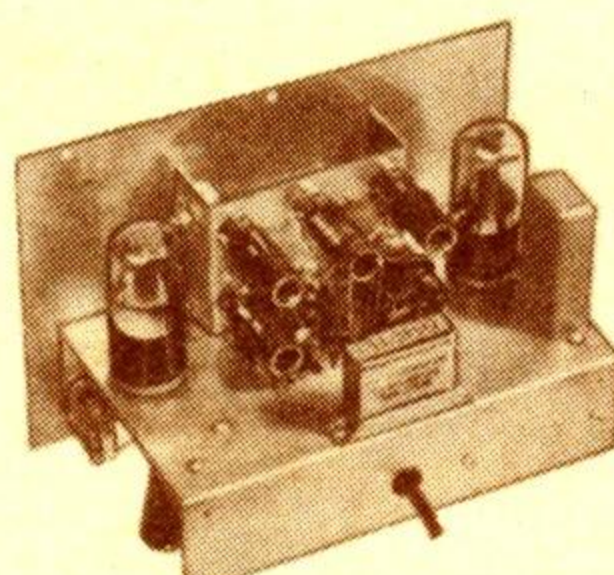
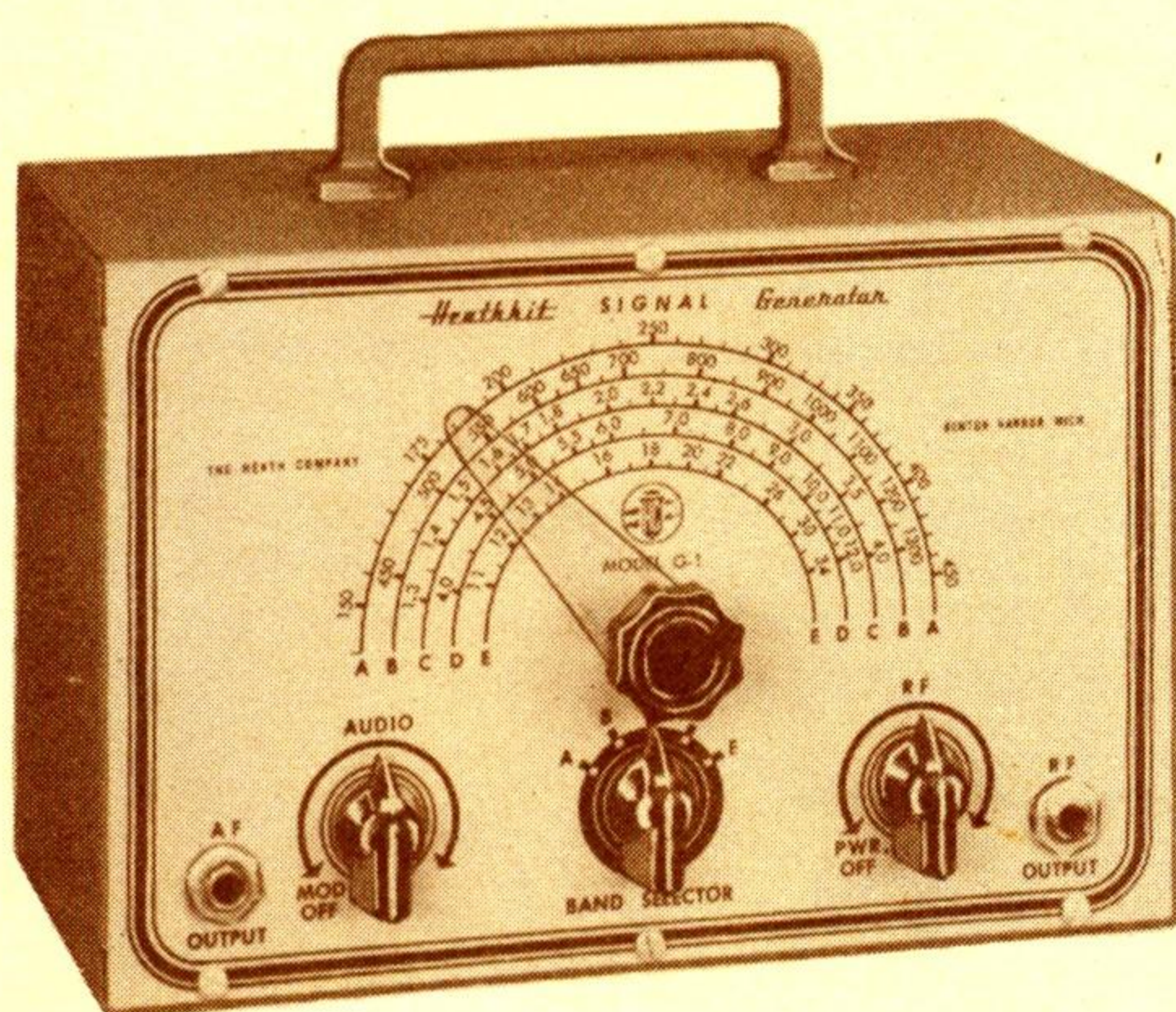
ARB OWNERS ATTENTION! Some female plugs for control box to receiver connections are now available at \$1.00 per pair.

BC 223 OWNERS ATTENTION. We have at last obtained cords CD 477 with plugs for PE 125 to transmitter. Available at \$1.50 each.

REGARDING DELIVERIES. As this FLYER goes to press, deliveries on VTVM, Oscilloscope and Amplifier kits are quoted three weeks from receipt of order; signal generator kits, immediate delivery. We hope to improve this situation and catch up with the tremendous demand soon.

Only **\$19.50**

HEATHKIT SIGNAL GENERATOR KIT

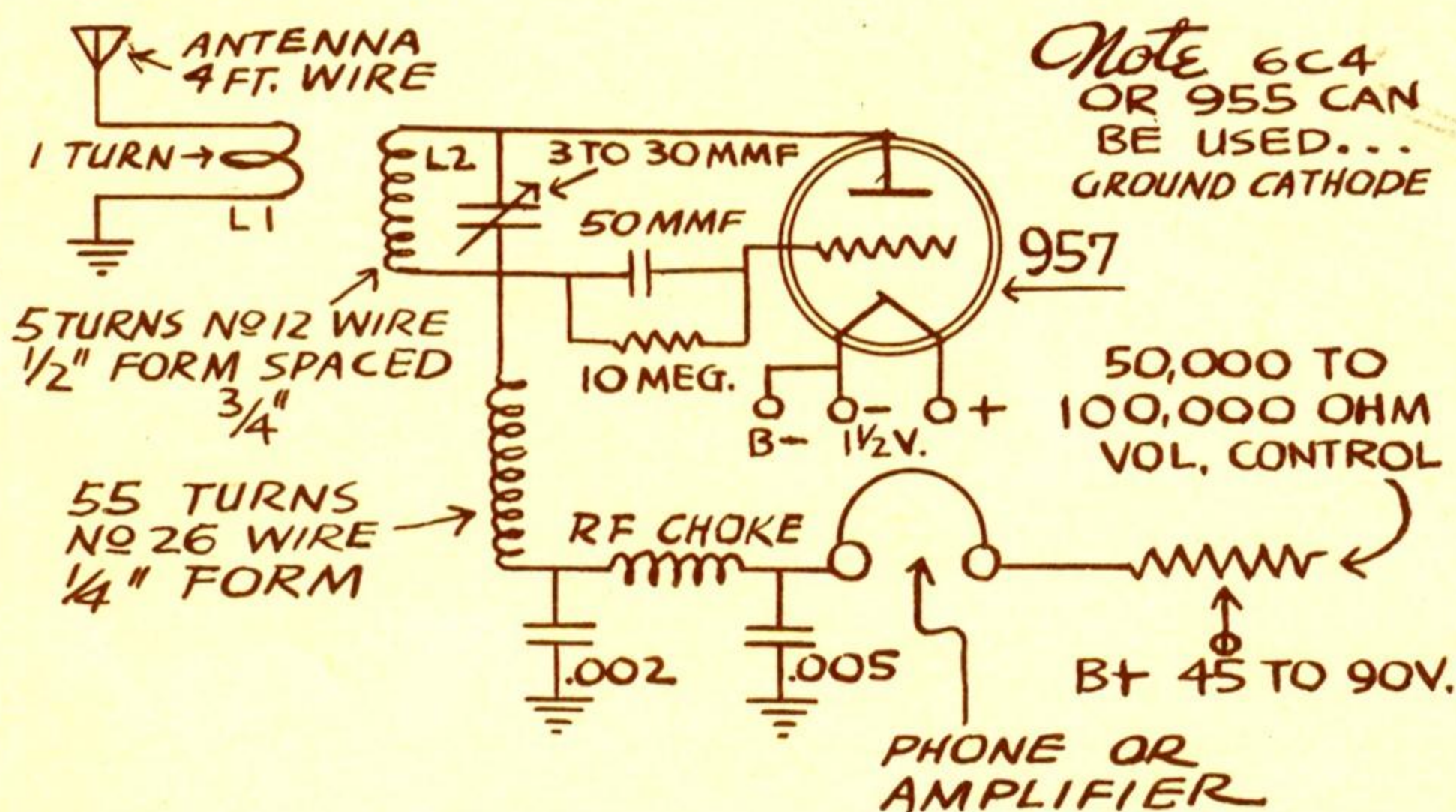


REAR
VIEW

110 Volt 60 cycle operation with transformer power supply.
Completely isolated from power line.
Can be used on any type receiver.
Supplies fundamentals from 150 KC to 34 MC in five bands.
Useful harmonics to over 100 MC for FM and television alignment.
400 cycle audio frequency modulation available separately for audio testing.
Supplies either pure RF or modulated signal.
Highly accurate calibration with calibration adjustment for exact frequency.
Approximately 30% modulation.
Uses 6SN7 as oscillator and audio frequency amplifier and 6X5 as transformer power supply rectifier.
Convenient, portable--Dimensions 9" x 6" x 4 3/4" deep, weight 4 1/2 lbs.

The Heathkit Signal Generator supplies an RF signal of extremely pure wave form, and maintains an excellent linear output throughout its range. Its small size and light weight make it very convenient for carrying on jobs, or as a portable unit around the laboratory.

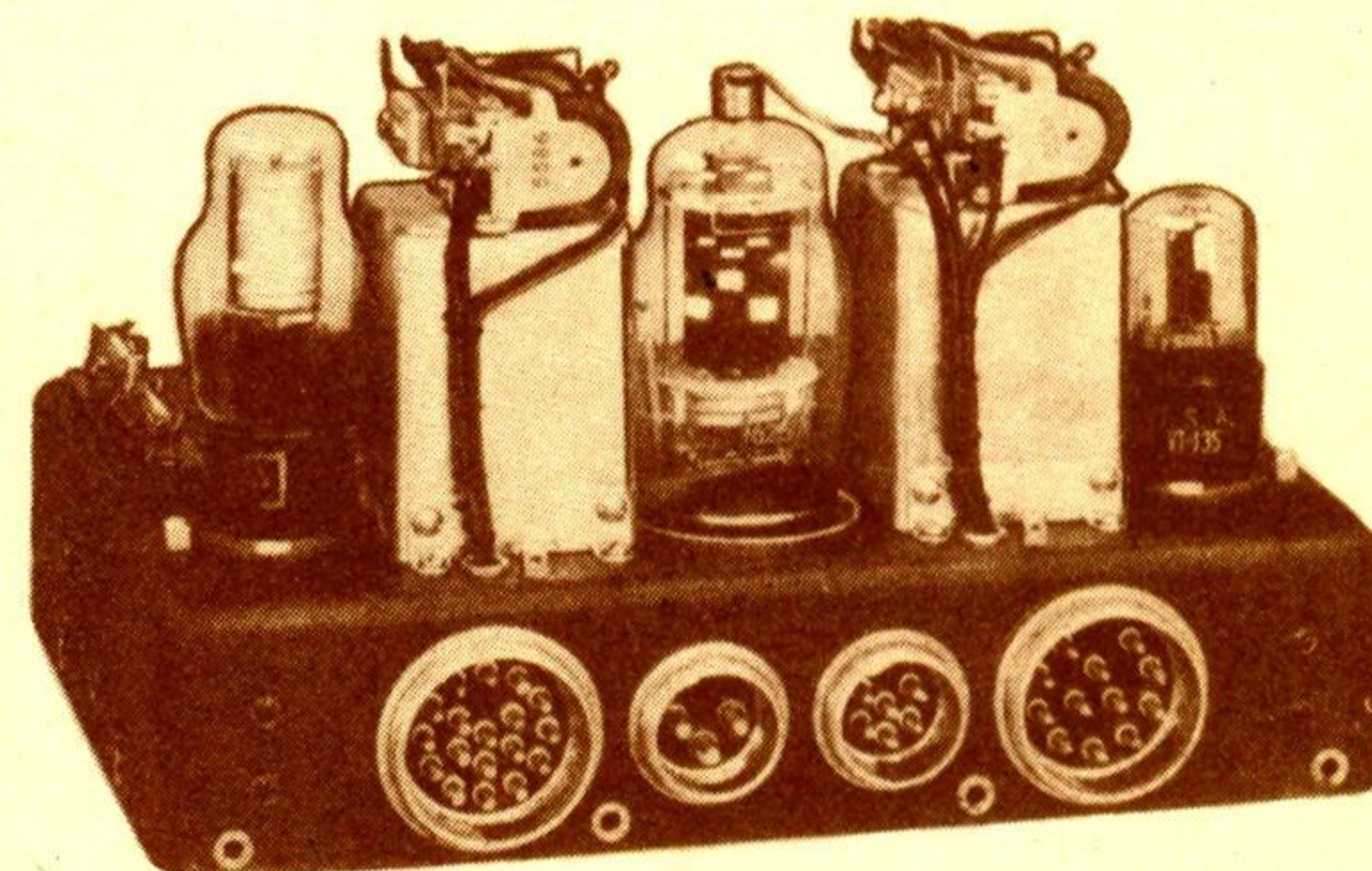
A SIMPLE F M RECEIVER



This is a super regenerative receiver for FM and will cover 90-110 MC. Vary the spacing of the L2 coil until the band is covered. The location of L1 is quite critical; vary it for best results. Distances of 75 miles have been achieved. This article is included for information only. The Heath Company does not supply the parts.

BC 456 COMMAND SET MODULATOR

\$4.95



A companion modulator to the BC 457-58-59 and 696. It contains three husky relays, carbon microphone to grid transformer, power supply filter and bleeder resistors with VR 150 tube for constant output voltage. Also includes a 12J5 and 1625 tube. An excellent basis for building a high quality 8 watt mobile amplifier. Used, but in good condition, with tubes, relays, etc., less dynamotor. Shipping weight, 11 lbs.

BENDIX MN26C MARINE & AIRCRAFT RADIO COMPASS



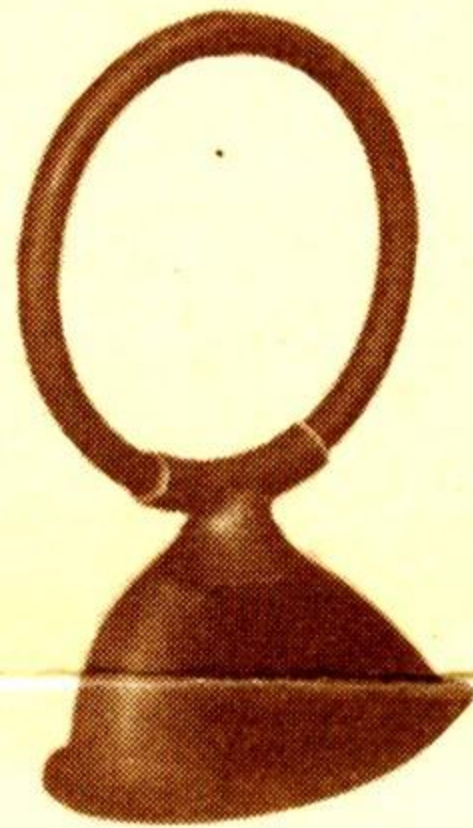
\$24.95

A brand new 12 tube radio compass which covers aircraft, marine and regular broadcast band 150-1500 KC Comes complete with instruction manual, shock mounting, 24 volt power supply (can be converted to 12 volts). 12 tubes in original carton. This is one of the last quantities of high quality compasses available and our stock is limited. Order now.

BENDIX MN20E LOOP

Used with above receiver for direction finding, homing, establishing a fix, reception in snow and ice conditions, etc. 9" diameter.

Only
\$9.95



MAKING A CONTACT PRINTER FROM SURPLUS ASTROGRAPH

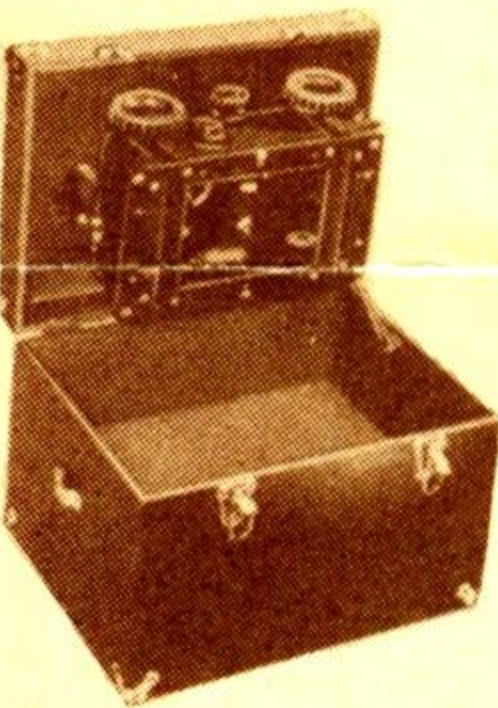
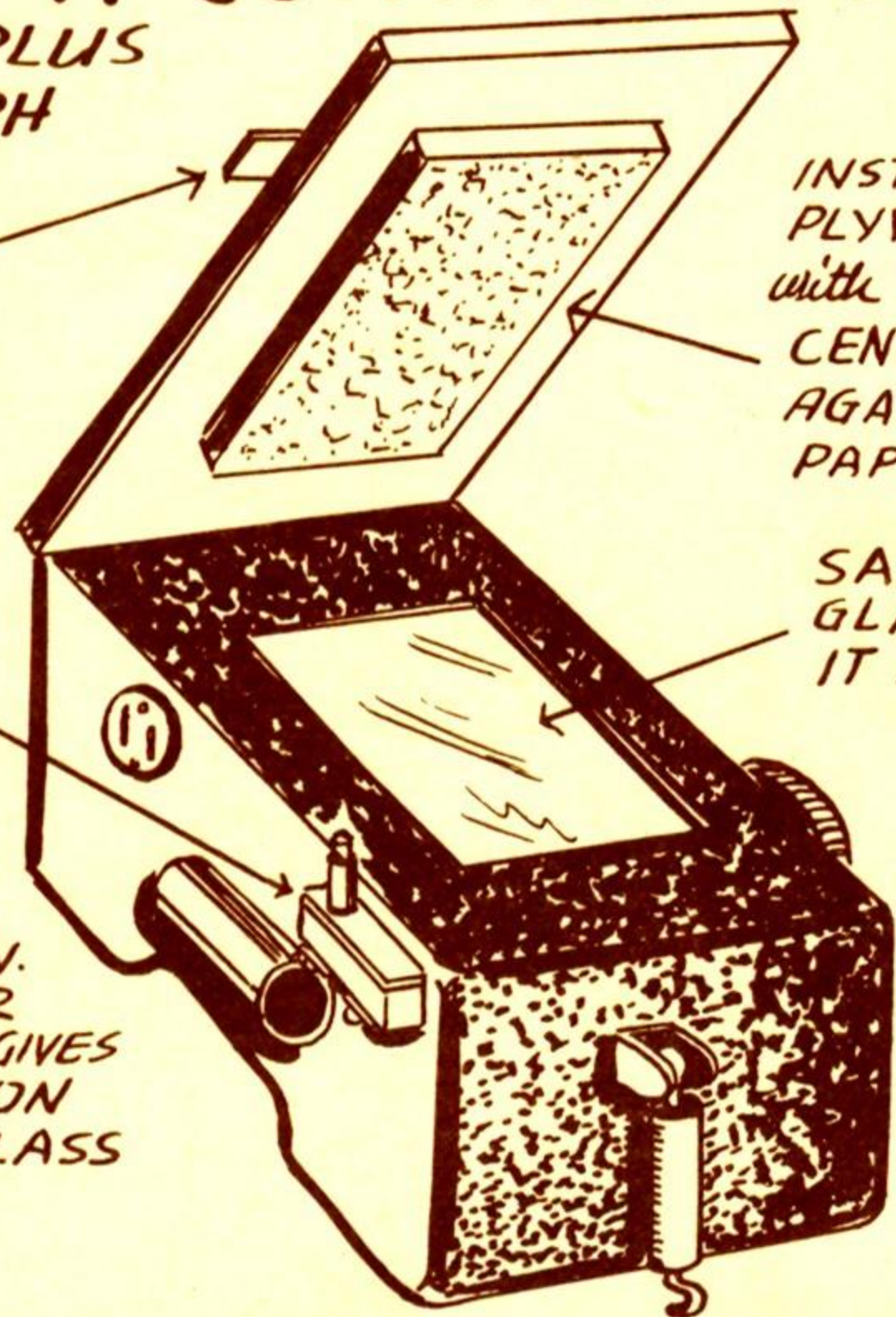
SMALL METAL CLIP TO PRESS MICROSWITCH CONTACT....

MICROSWITCH TO TURN ON LIGHT WHEN COVER IS PRESSED....

MICROSWITCH AVAILABLE FROM US \$1.00

INSTALL HINGED PLYWOOD COVER with SPONGE RUBBER CENTER TO PRESS AGAINST NEGATIVE PAPER

SAND BLAST GLASS SO THAT IT IS OPAQUE



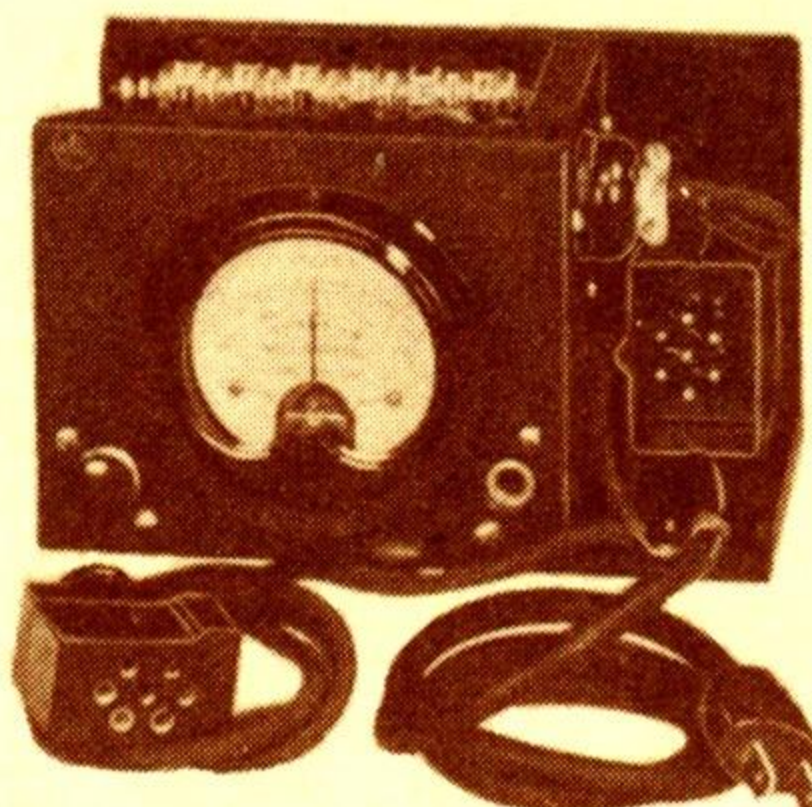
Note REPLACE 24V. BULB WITH LARGER 110V. BULB WHICH GIVES EVEN ILLUMINATION TO THE OPAQUE GLASS

We have a fair stock of astrographs remaining. These come in a handy 3/8" quality plywood case with leather handle ideal for a camera or projector carrying case, a small tool box, tackle box, etc. Case measures inside 13 3/4" x 10 1/2" x 9" including eight handy separate compartments in the bottom. Astrograph and case only Shipping Wt. 20 lbs. . \$3.95

MULTITESTER BIAS METER 1-97A

Contains a zero center 3 1/2" round Marion voltmeter calibrated 0-100 volts each side. Movement is one mill each side of center. The unit is mounted in a steel box 7" x 5" x 4 1/2" and contains 8 contact push button, line cord dual 100 MFD at 200 V DC Aerovox condenser, a potentiometer, 6 LRC 1% wire wound non-inductive resistors: one 400 ohm, two 2500 ohm, one 5000 ohm, one 10,000 ohm, one 15,000 ohm.

Excellent for building a zero center multitester with ranges of 1 - 10 - 100 - 1000 volt. Complete brand new . . . Shipping weight 4 lbs.



\$4.95

SOCKET *Special*



Single hole mounting octal, brown, low loss, bakelite, less locking rings

25 FOR \$1.00

2 hole flange mounting octal bakelite 1 5/16" mounting centers . . .

20 FOR \$1.00

Ceramic 2 hole flange mounting octals, 1 1/2" mounting centers . . .

10 FOR \$1.00

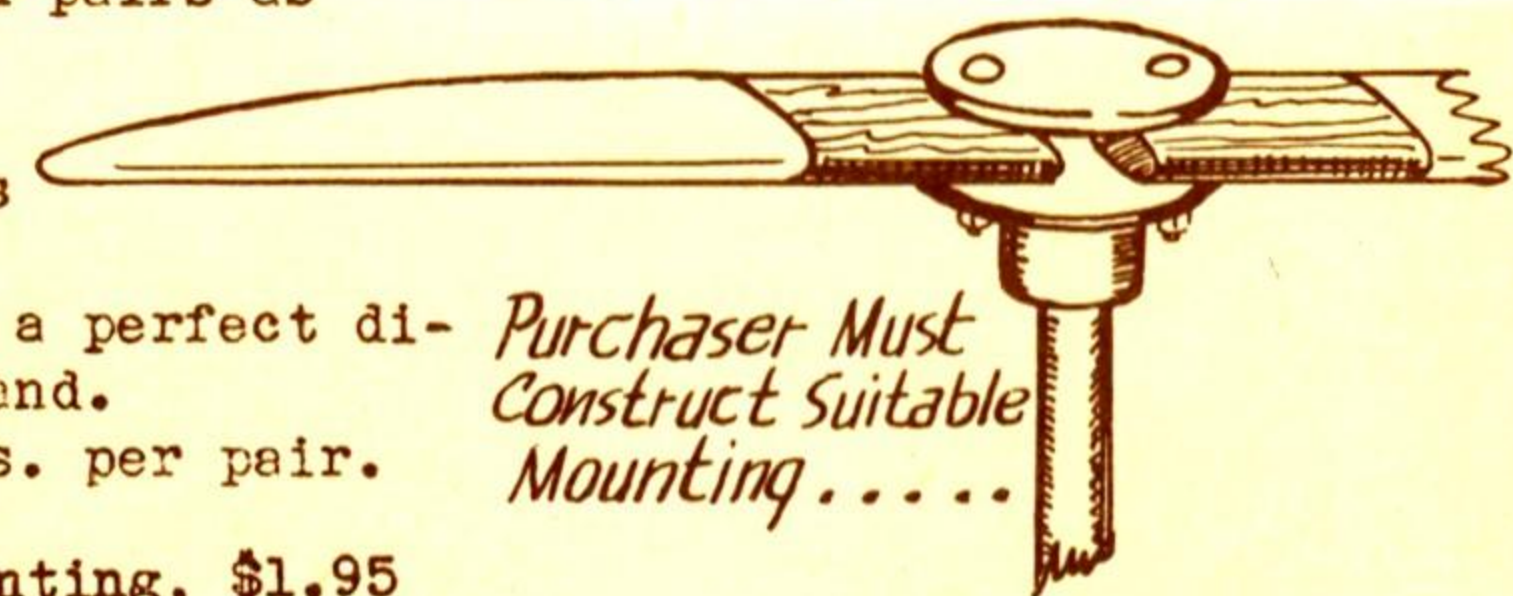
Ceramic acorn sockets

5 FOR \$1.00

AN *Inexpensive* FM & TELEVISION ANTENNA

The Army blade type antenna AN104A which was used on fighters makes an excellent FM and television aerial when mounted in pairs as shown. It is made of compreg and has a coaxial connector at its base. The blades are 30" long and two form a perfect dipole antenna for FM band. Shipping weight 6 1/2 lbs. per pair.

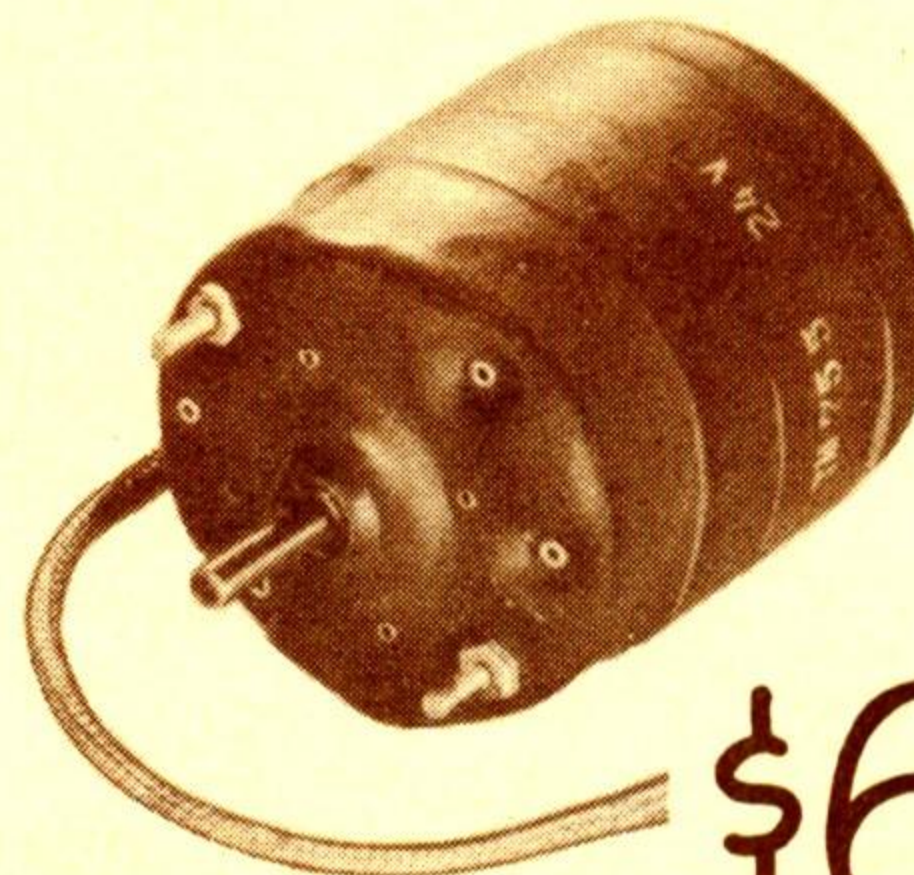
FOR Only
\$1.95



Purchaser Must Construct Suitable Mounting.....

Two Blades less Mounting, \$1.95

MOTOR FOR FLEXIBLE SHAFT TOOL



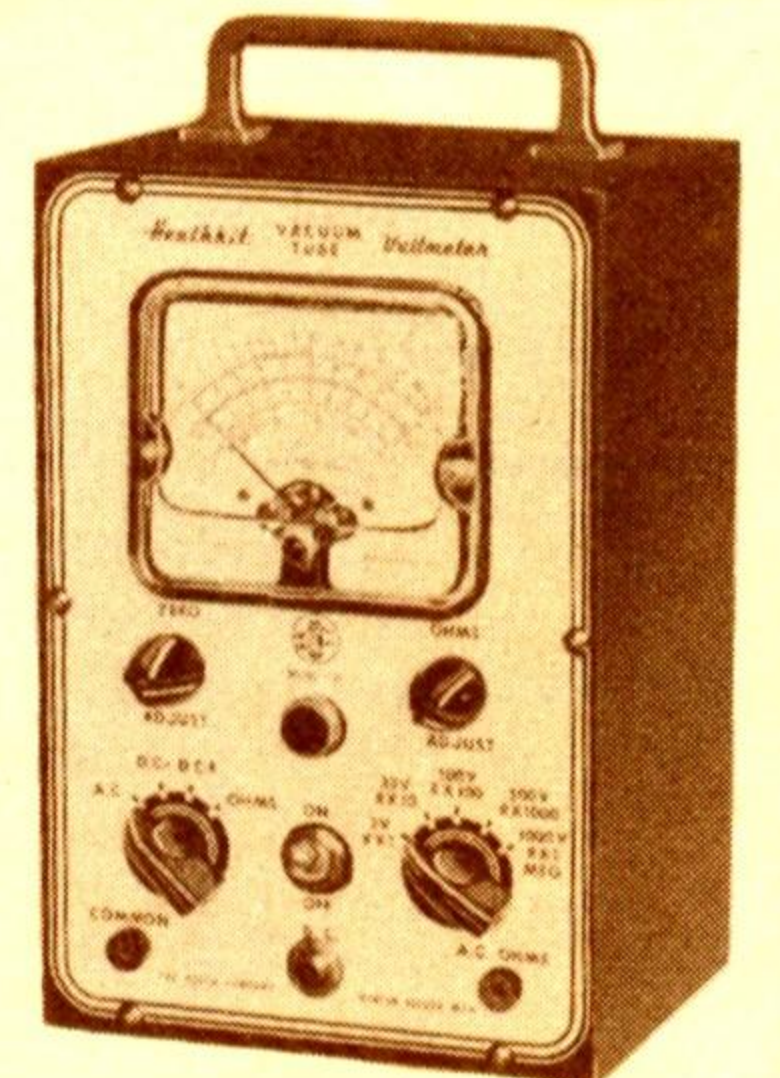
24 V Redmond 1/16 h.p. 3750 RPM supplied with 110V AC conversion kit. 1/4" shaft 7/8" long is ideal for building a flexible shaft, home workshop tool or powering model making machinery. Dimensions are 3" diameter 5" long. An extremely powerful small motor.

\$6.95

Complete with Kit For Oper. from 110V.A.C.

HEATHKIT VTVM KIT

- * 500 microamp meter
- * Balanced bridge circuit with 11 meg-ohm input resistance
- * 110 volt, 60 cycle operation with transformer power supply
- * Electronic AC readings linear 20-20,000 cycles
- * Linear scales
- * Ohmmeter range .1 ohm to 1 billion ohms
- * AC and DC ranges 0 to 3, 30, 100, 300 and 1000 volts
- * db scale for amplifier measurements
- * 1% tolerance precision divider resistors
- * Large clear plastic faced meter 3 1/2" x 3 3/4"
- * Convenient size case 6" wide x 9" high x 4 3/4" deep
- * Weight 6 pounds
- * Test prods included
- * 3 tubes--1 6SN7, 1 6H6, 1 6X5 included
- * Complete detailed blueprints for easy assembly

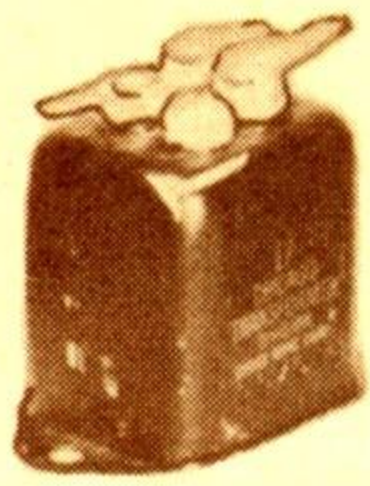


ADD POSTAGE FOR 8 LBS...

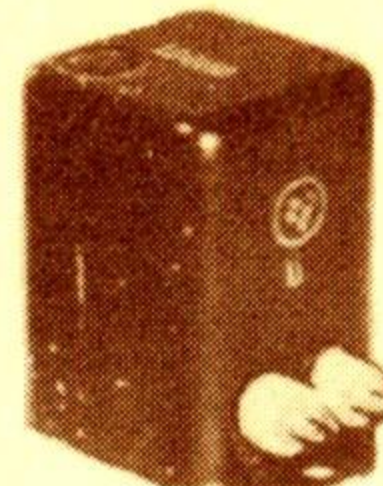
\$24.50

Nothing ELSE TO BUY...

Heath Transformer & Choke List No. 1

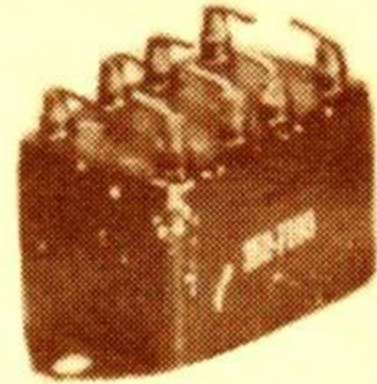


Output Transformer
Couples 1 triode plate, 15,000 ohms at .003 amps. d.c., to 250 ohms. Frequency response 100-3000 cycles.
No. 748 Wt. 6 oz. 25¢

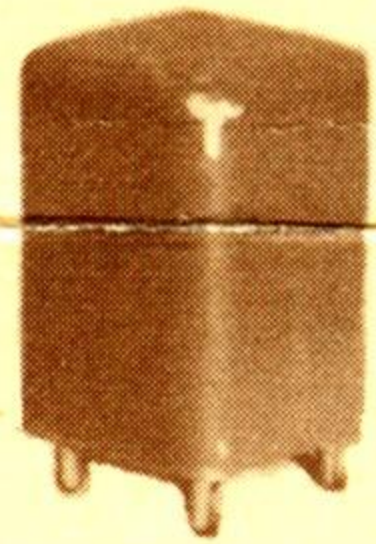
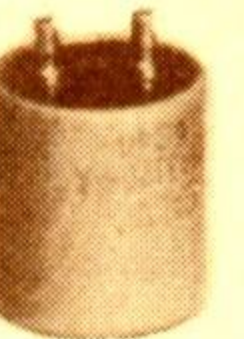


Filter Choke
.15 henries @ .400 amp. D.C. D.C. resistance 12.5 ohms. Hermetically sealed.
No. 647 Wt. ½ lb. 25¢

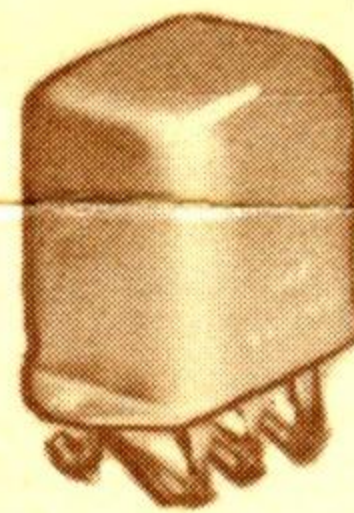
Input & Output Transformer
Carbon microphone to grid and 1S5 plate to 150 ohm load. Two transformers in one case.
No. 744 Wt. 4 oz. 25¢



Audio Choke
1.3 henries min. at .020 amps. D.C. 500 ohm resistance. Semi-sealed.
No. 733 Wt. 2 oz. 15¢

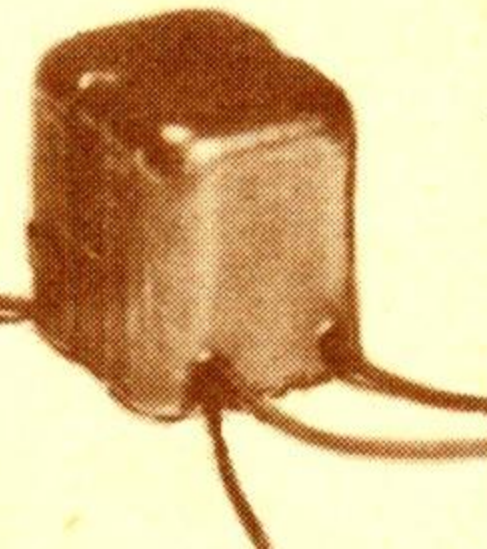


Filter Choke
15. henries @ .060 amp. D.C. D.C. resistance 1600 ohms max. Hermetically sealed.
No. 643 Wt. ½ lb. \$1.00

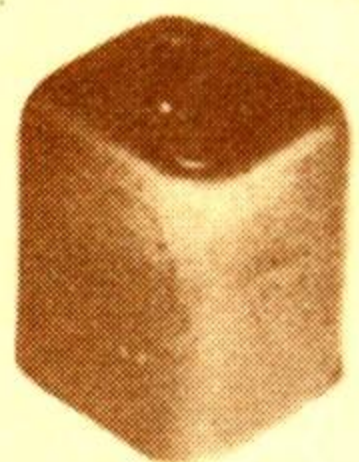
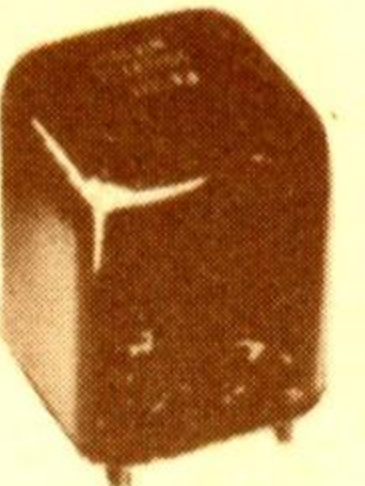


Driver Transformer
Couples 3000 ohm plate or equivalent tube to push-pull parallel grids. Hermetically sealed.
No. 651 Wt. 6 oz. 75¢

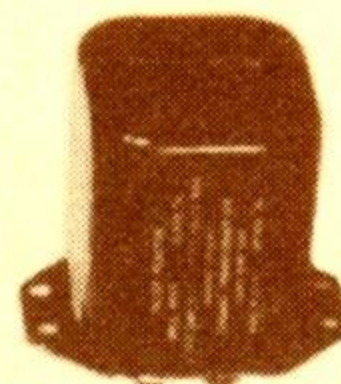
Modulation Transformer
P.P. tubes, - 30,000 ohms plate-to-plate @ .012 amperes D.C. to 10,400 ohms @ .024 amps. D.C. and to 3 ohms. Compound sealed.
No. 659 Wt. 4 oz. 25¢



Output Transformer
Primary 80,000 ohms, CT. Sec. 1000 ohms. Freq. response 100-5000 cycles plus-minus 1 db. Semi-sealed.
No. 735 Wt. 1 lb. 20¢



Output & Modulation Transformer
Couples 2 tubes 3000 ohms plate-to-plate 60 MA. D.C. to 3.4 ohm speaker voice coil or to 1.250 ohm at 80 ma. D.C. Max. power 4 Watt.
No. 745 Wt. 1 lb. 2 oz. \$1.00



Filter Choke
4.5 henries @ .050 amp. D.C. D.C. resistance 215 ohms maximum. Hermetically sealed.
No. 640 Wt. 10 oz. 50¢

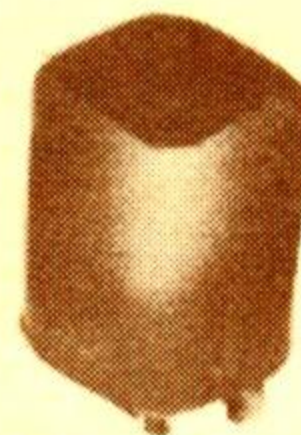
Filter Choke
8.0 henries min. @ .035 amps. D.C. 400 ohms resistance. Hermetically sealed.
No. 727 Wt. 12 oz. 50¢



Microphone Transformer
Couples single button mike to 500 ohm line. Freq. response 300-3000 cycles. Hermetically sealed.
No. 737 Wt. ½ lb. 25¢



Filter Choke
3 henries @ .060 amp. D.C. D.C. resistance 80 ohms max. Hermetically sealed.
No. 642 Wt. 12 oz. 3 for \$1.00



Filter Choke
1.5 henries @ .100 amp. D.C. D.C. resistance, 50 ohms max. Hermetically sealed.
No. 641 Wt. 14 oz. 3 for \$1.00

DOUBLE FILTER CHOKE Consists of two 3.5 henry coils @ .075 amp. D.C. D.C. resistance 200 ohms. No. 635 60¢

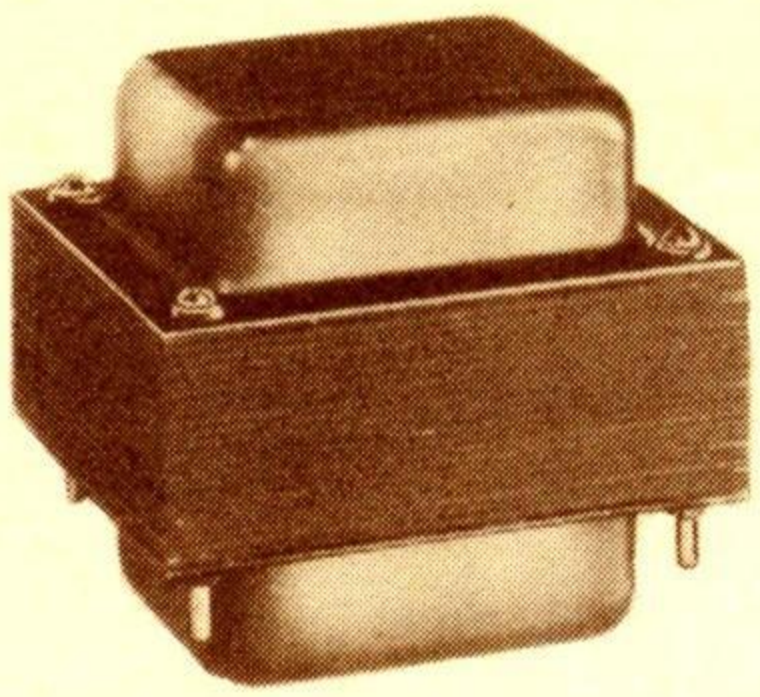
FILTER CHOKE 7.0 henries at .060 amps. D.C. 350. ohm resistance. No. 738 75¢

FILTER CHOKE 5 henries @ .040 amp. D.C. D.C. resistance 500 ohm. No. 636 50¢

OUTPUT TRANSFORMER Couples 6C4, or equivalent, to 500 or 5000 ohm line. One secondary used at a time. No. 716 50¢

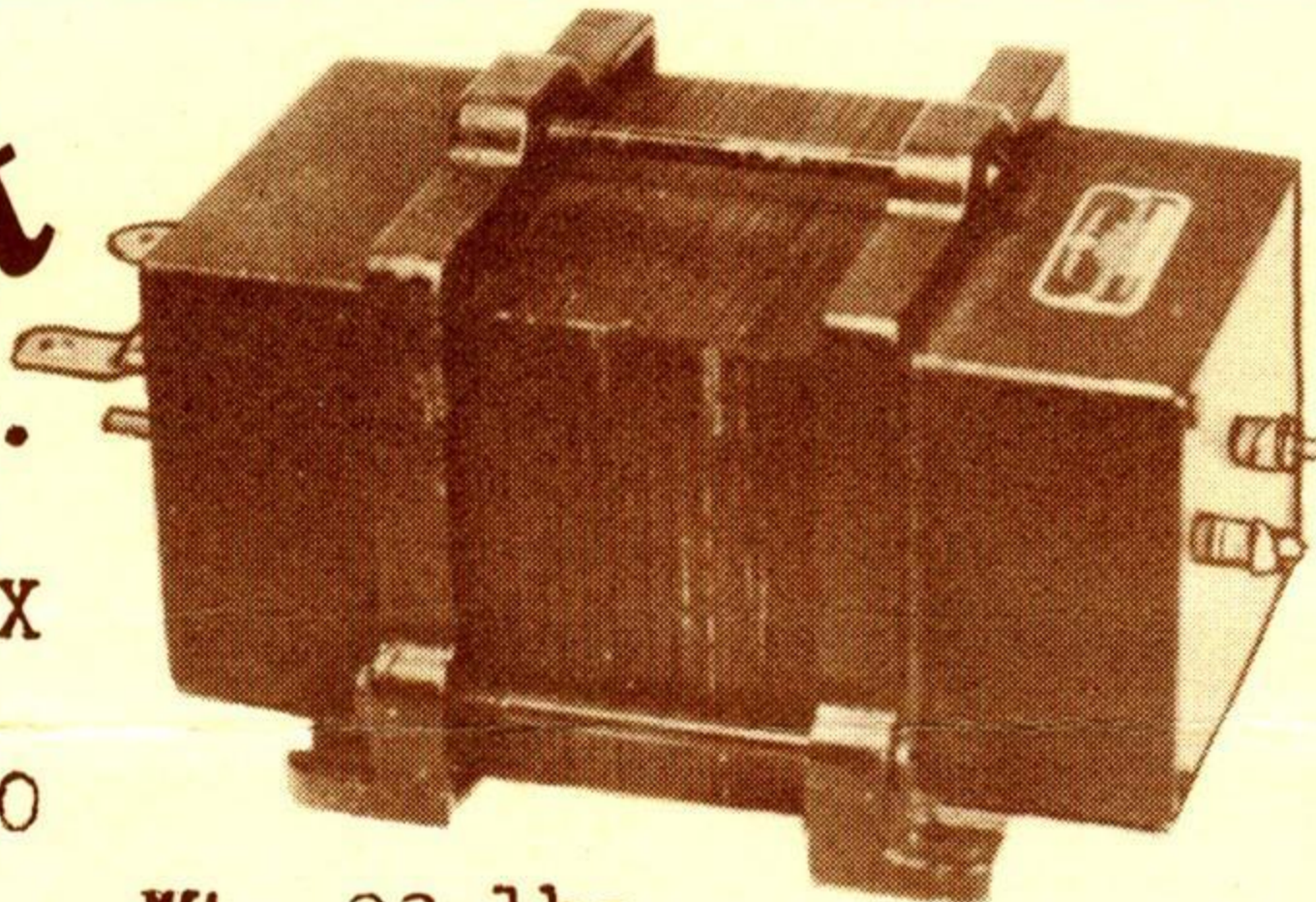
Prices F.O.B. Benton Harbor--Express or Motor Freight shipment recommended. Quantities available 1,000 to 5,000 ea. (WE SHIP C.O.D.)

Heath Transformer & Choke List No. 1



POWER TRANSFORMER SPECIAL
Primary 117V 60 cycle.
Secondaries 746 V CT at
220 MA, 6.3V at 4.5A, and
5V at 4A. Will handle 13
tube radio receivers.
\$ 3.95 3 for \$ 9.95
Wt. 8 lbs. 8 oz.

Heavy Duty Filament Transformer
Kenyon, Prima
115 V. 40 ct. Sec.
5 V. 30 amps. Ct.
1 1/2" X 5 3/4" X
4 1/4" high
No. 824 \$2.00



Wt. 22 lbs.

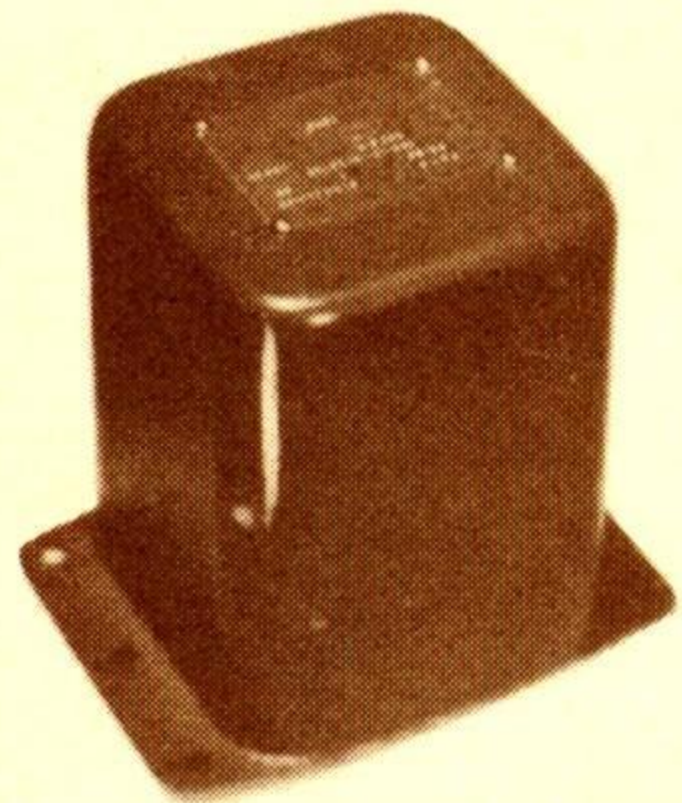
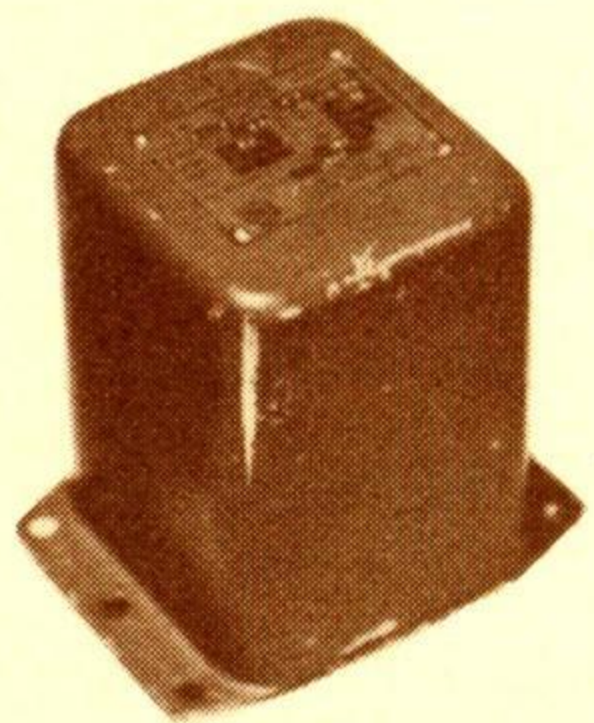
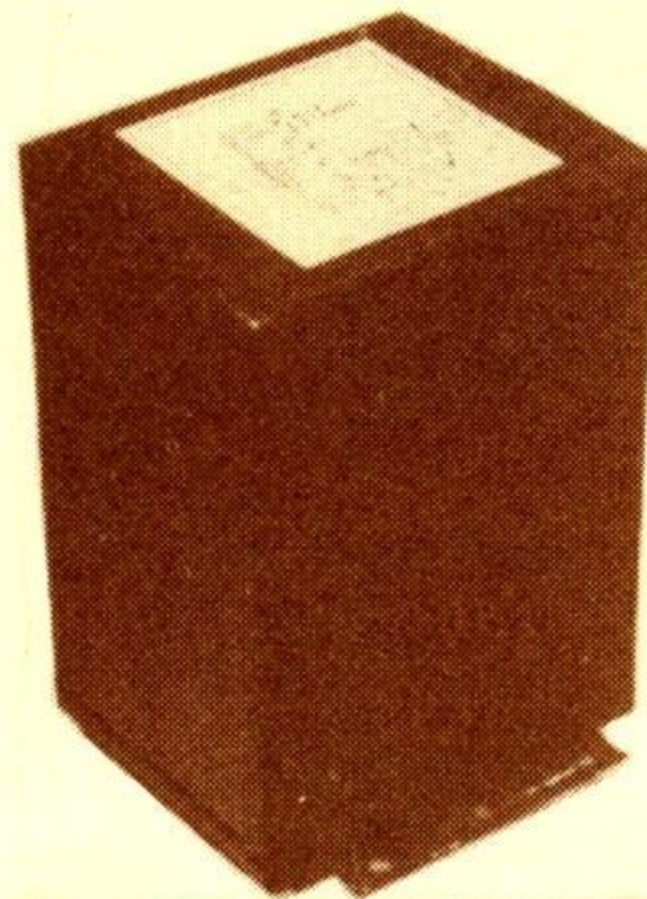


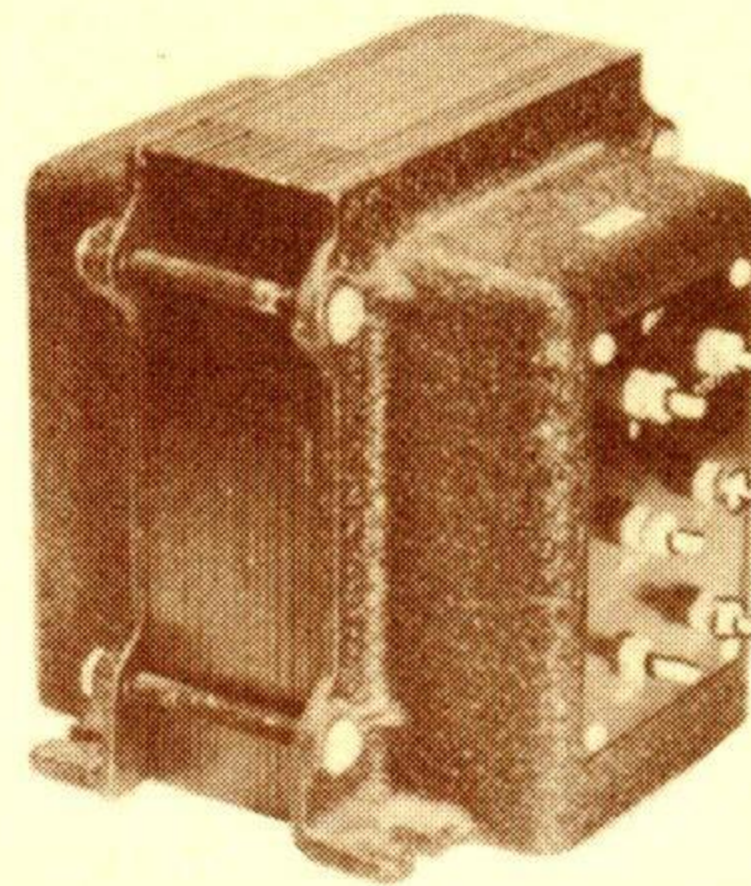
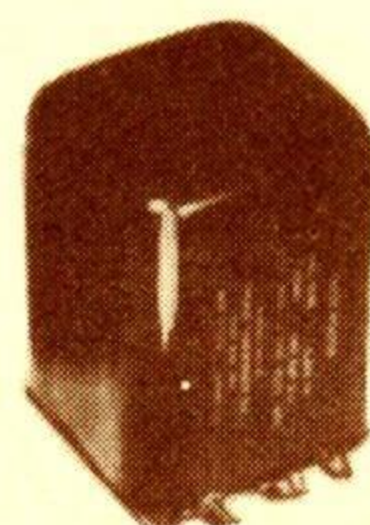
Plate Supply Transformer
Primary: 115 V. 60 Cy.
Secondary: 250-0-250 V., .130
amps., D.C. (condenser input).
Semisealed in flange mounted
case, solder-lug terminals out
base.
No. 603 Wt. 5 lbs. 4 oz. \$1.25

Power Transformer
Primary 117 V. Sec. 6.3 at
2.1 amps, 312 V. D.C. at 100
mils, 5 V. 3 amps, hermeti-
cally sealed rectangular case.
No. 1273 Wt. 7 lbs. \$2.50



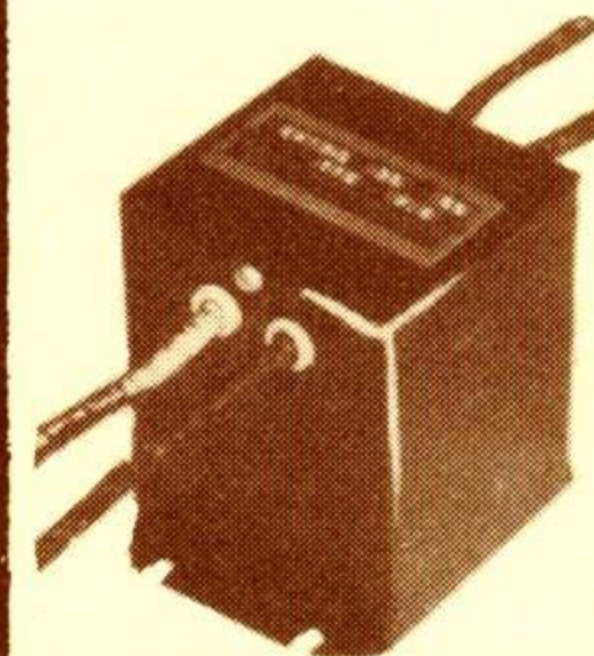
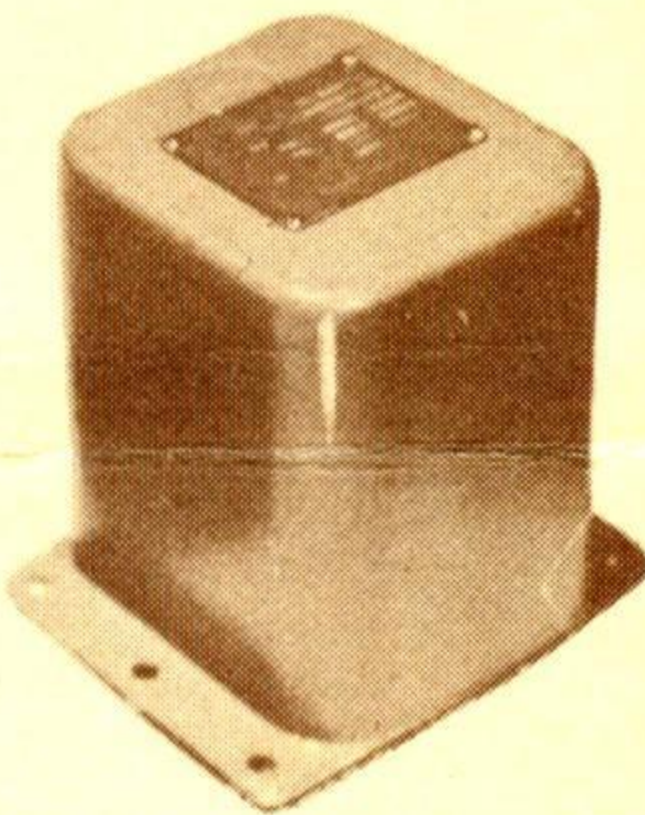
Filter Choke
6. henries at .150 amps. D.C.
100 ohms resistance. Hermeti-
cally sealed in flange mounted
drawn steel case. Terminals
out base.
No. 739 Wt. 4 lbs. 2 oz. \$1.50

Filter Choke
6 Henries @ .080 amp. D.C. D.C.
resistance 150 ohms. Hermeti-
cally sealed in stud mounted,
drawn steel case measuring 2.66"
X 2.23" X 2.91" deep. Terminals
brought out base of unit.
No. 644 Wt. 1 lb. 10 oz. 75¢



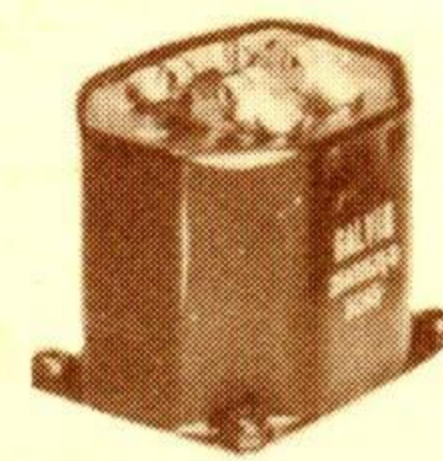
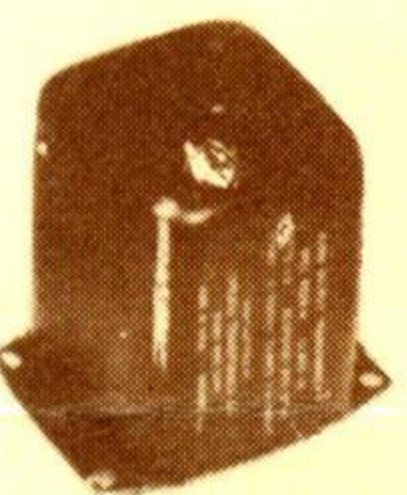
Transformer
Primary 110-120 V. Secondary
550 Ct. at 1. amp. Fully
mounted type construction in
one end bell and fitted with
screw type terminals. Mfg.
by Gardner Electric Co. Two
units make an excellent 550
watt isolation circuit.
No. 799 Wt. 22 lbs. \$2.00

Audio Driver Transformer
Couples 4 6L6 tubes in p.p.
par. to 2-450 TL's. Can be
used as modulation transformer.
Maximum D.C. through second-
ary - 140 mils Max. power
100 watts. Freq. response 100-
5000 cycles Turns ratio 2 to 1.
Semi-sealed flange mounted case with screw
type terminals out base.
No. 712 Wt. 4 lbs. 14 oz. \$2.50



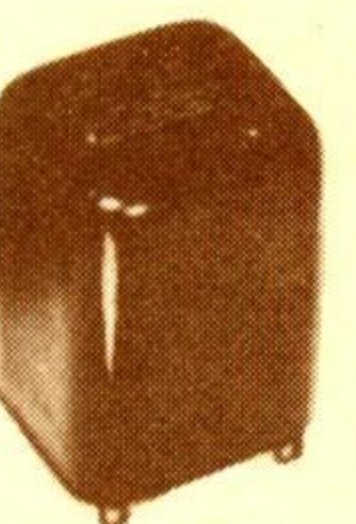
Filament Supply Transformer
Primary - 115V., 60 cycles
Secondary delivers 7.5 volts (no
load). Unit is rated at 30 V.A.
Unit semi-sealed in flange mounted
fabricated steel case with rubber
covered leads out sides.
No. 601 Wt. 2 lb. 14 oz. 50¢

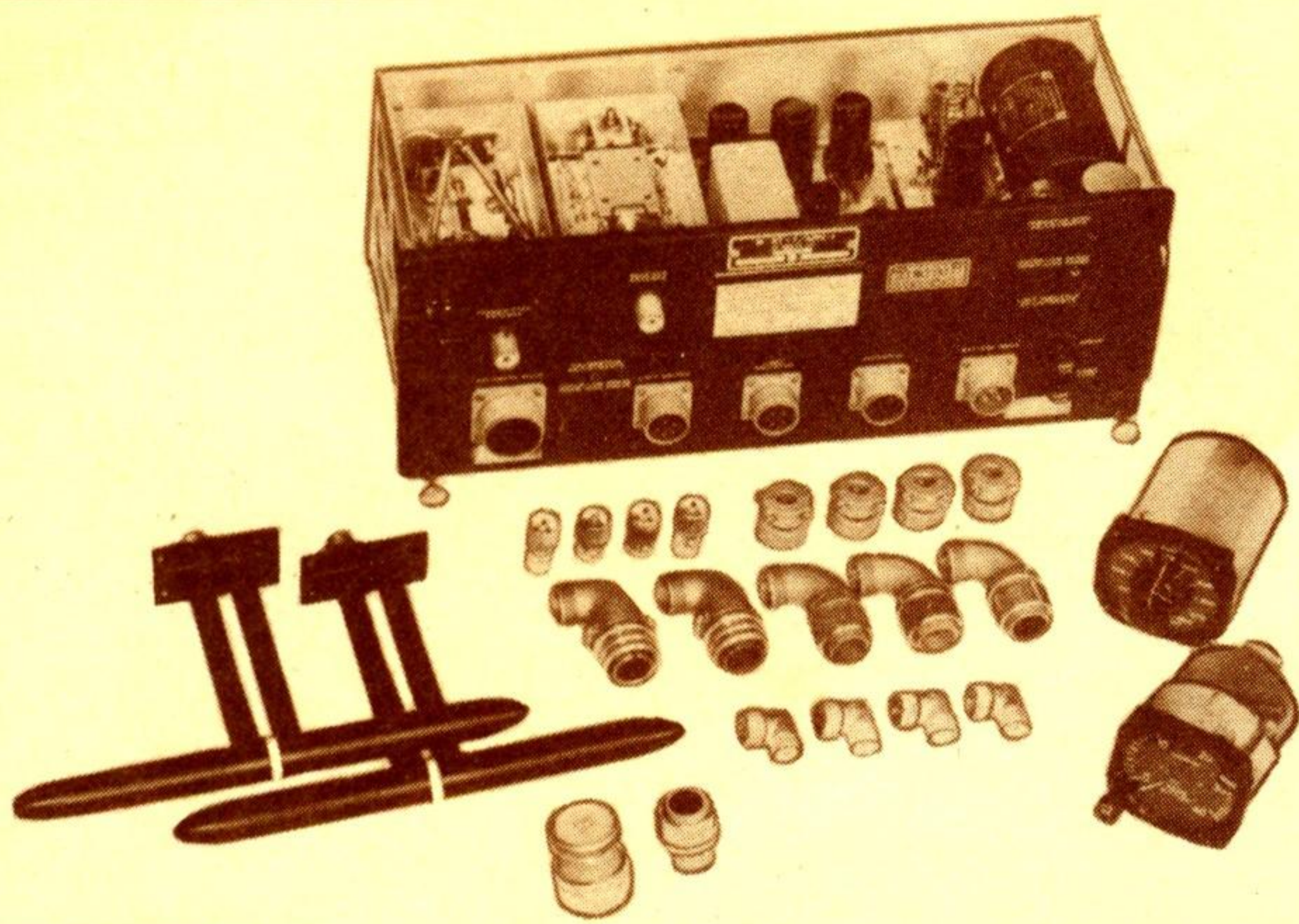
Output Transformer
9000 ohm plate to 500 ohm line.
Max. power rating 1.5 watts. Freq.
300-3000 cps. Hermetically sealed.
Terminals out base.
No. 649 Wt. 1 lb. 79¢



Microphone Transformer
Carbon microphone to single grid.
40 to 1 turns ratio. Four mounting
holes equipped with elastic stop
nuts.
No. 731 Wt. 1/2 lb. \$1.00

Filter Choke
15 henries @ .060 amp. D.C. D.C.
resistance 800 ohms. Hermetically
sealed in stud mounted drawn steel
case measuring 2.09" X 2.23" X
2.91" deep.
No. 645 Wt. 1 lb. 8 oz. \$1.00





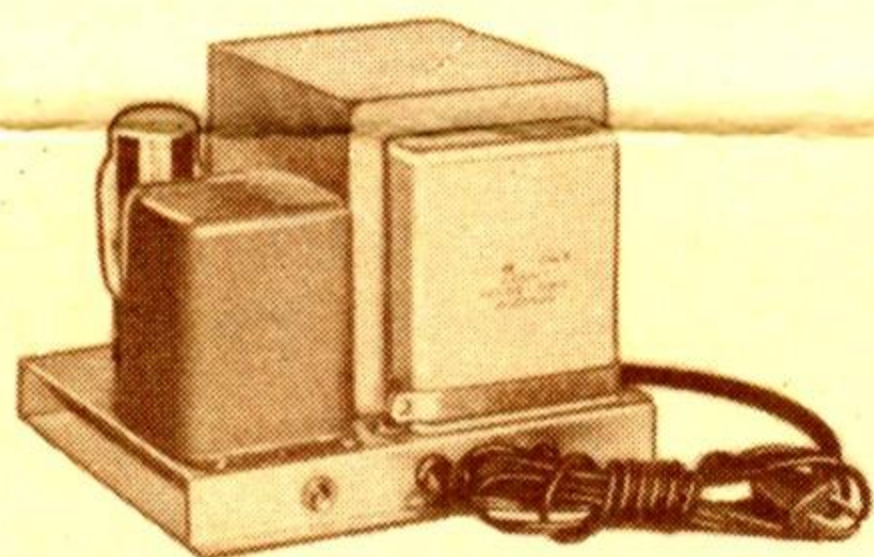
*Boat
OWNERS*

AN IDEAL SMALL BOAT RADAR SET

These brand new U. S. Army radio altimeters AN/APN1 are excellent as small boat radar sets indicating in feet to the nearest object. Can be fixed to indicate object straight ahead or can be rotated manually. They operate in 420 megacycle range and indicator reads 0-400 and 0-4000 feet. Complete with 14 tubes, 28V dynamotor power supply, shock mounting, two antennas, indicator, indicator switch, all plugs and connectors and operating instruction manual in original sealed carton. Shipping weight 70 lbs.

\$34.95

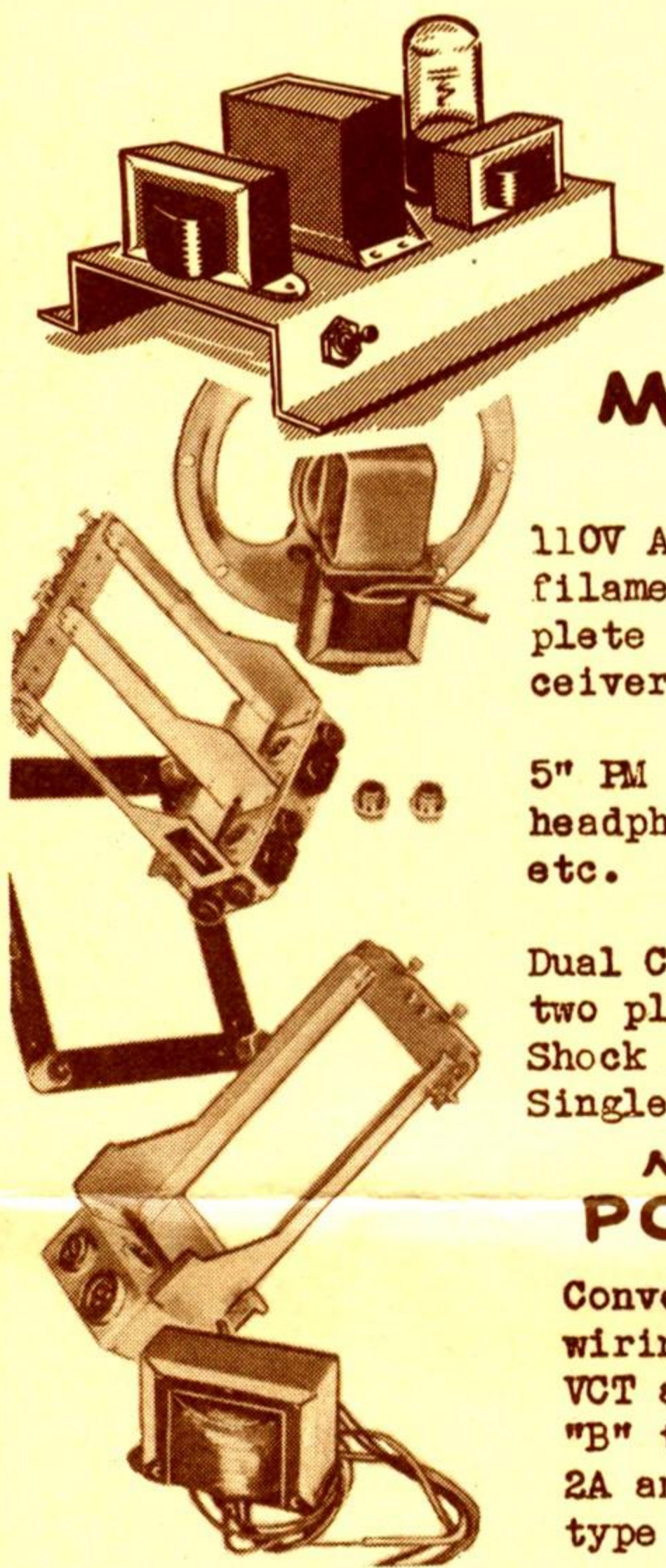
TRANSMITTER POWER SUPPLY KIT



Ideal for BC645, 522, 223 and command set transmitters. Complete kit supplies 500-600 V DC at 200 MA, 6.3 at 3.6 amps and 9 and 12 V AC. All parts including chassis.

\$11.95

Shipping Wt. 22 LBS.



MILITARY RECEIVER ACCESSORIES

110V AC receiver power supply kit with 24V filament, no wiring changes inside set. Complete with chassis. For ARB, Command receivers, etc. Shipping wt. 7 lbs. . . \$ 5.95

5" FM speaker with output transformer matching headphone output for ARB, Command Receivers, etc. Shipping weight 2 lbs. \$ 2.80

Dual Command set receiver rack FT277A with two plugs \$ 1.00
Shock mount for above rack \$ 1.00
Single command transmitter rack FT234A \$ 1.00

MILITARY CONVERSION POWER TRANSFORMER

Convert your military receivers without re-wiring the filament. "A" type supplies 500 VCT at 50 MA, 5V at 2A and 24V at 1.2A. "B" type supplies 500 VCT at 50 MA, 5 V at 2A and 12V at 1 amp. State whether A or B type desired. Shipping weight 3 lbs. \$2.95

TIPS and COMMENTS

IS OUR FACE RED!! After our complicated dynamotor article in the October flyer, a customer wrote, "Why not simply reverse the armature and connect 110VAC to low voltage input?" -- It works, too!

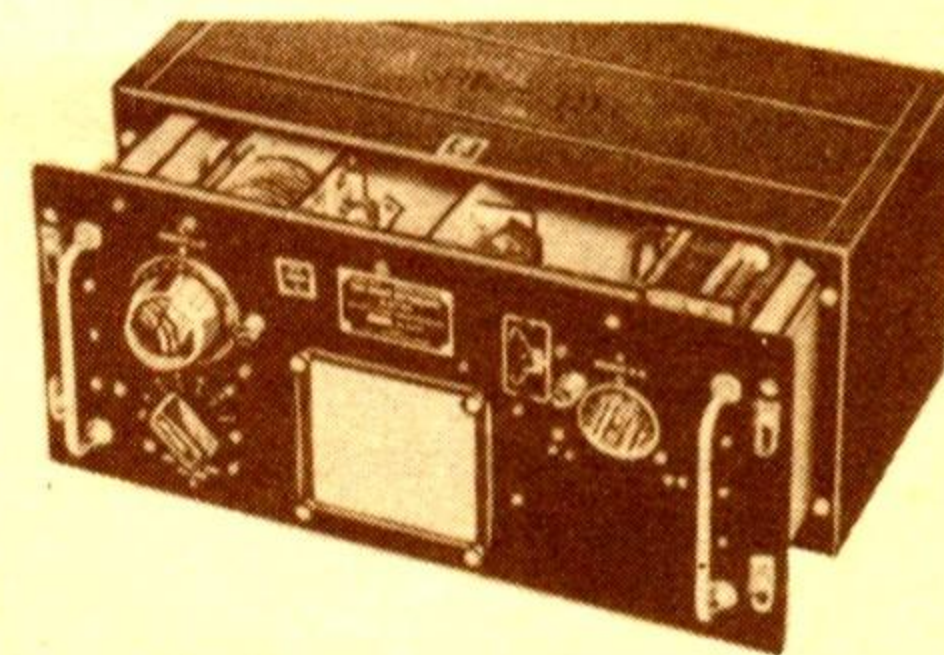
Handy Information on Heathkit Equipment! A new sheet with schematics of Heathkit test equipment is available on request. Write for one to show your friends.

Heathkit Oscilloscope Owners. If you didn't receive a grid screen for your scope, we can give it to you now. Just drop us a card and it will be sent free.

Your letters are appreciated. Thanks to all who have sent friendly and encouraging compliments on our service and merchandise. We're trying above all to give good value in service and material. To the small minority whose experience has been a little rough, we're sorry. Let us do better next time.

General Electric BC 375 TUNING UNIT *Supplied with Conversion data to Transmitter - Receiver*

A real buy for worthwhile spare parts. Over \$30.00 worth of new condensers, coils, switches, dials, etc. TU5B covers 1500 to 3000 KC, TU10B covers 9 to 12.5 MC and TU26B 200 to 500 KC. Transmitter-receiver conversion articles supplied for TU-5 can be used for other frequencies with slight modifications.

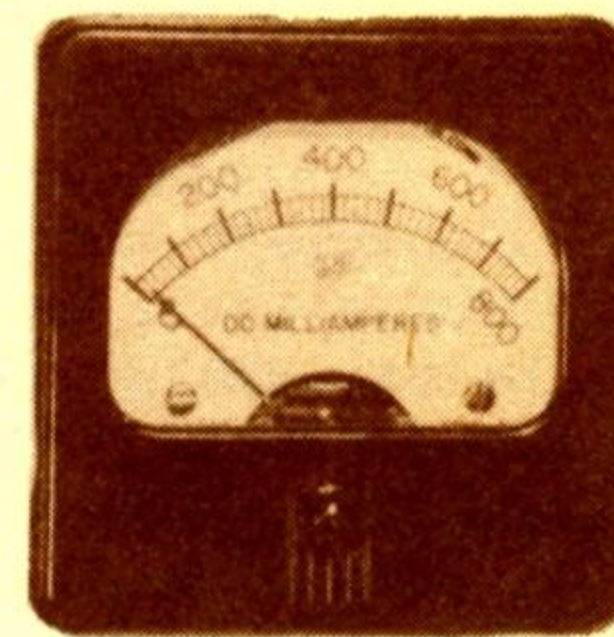


\$24.95

METER *Special*

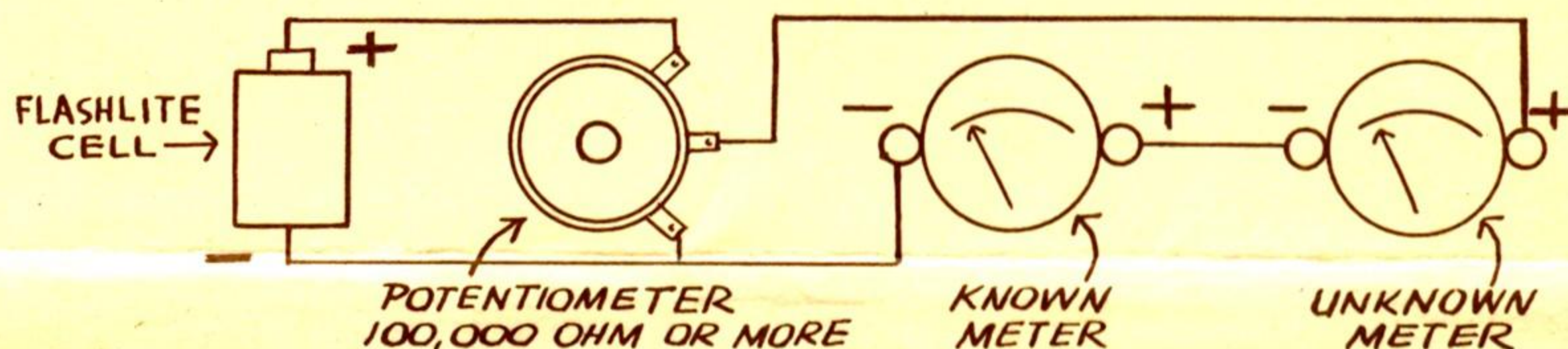
Brand new DeJur model 312 0-800 M.A. D.C. Square 3" 0-10 M.A. basic meter with built in shunt. Probably the best buy ever offered in a surplus meter. Shipping wt. 1 lb.

\$29.50



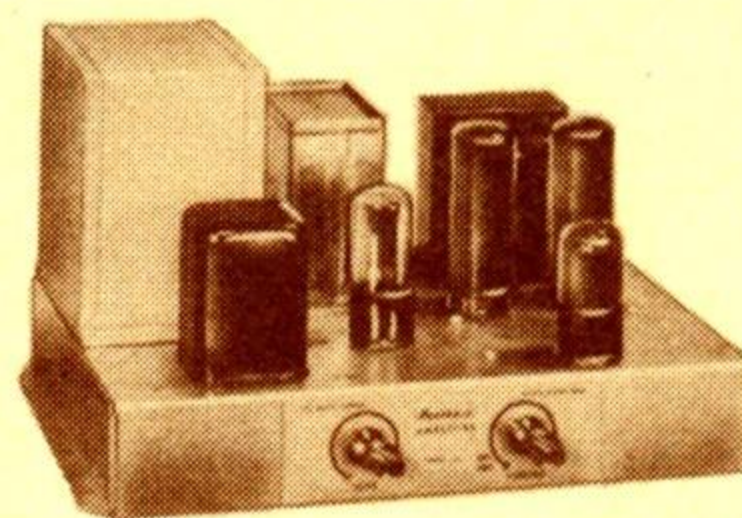
Checking panel meters

Many have asked how to determine the basic movement of a meter.



Connect as shown using known meter of higher range than unknown if possible. Be sure to have potentiometer set to zero (or counter-clockwise) position before making connections. Advance control slowly until one meter reads full scale. If this is the unknown its rating can be read on the known meter. On high current meters more than one battery may be required.

HEATHKIT HIGH FIDELITY AMPLIFIER KIT



\$14.95

**12" PM.
SPEAKER
FOR ABOVE . . . \$6.95**

Build this high fidelity amplifier and save two-thirds of the cost. Push pull output using 1619 tubes (military type 6L6's), two amplifier stages using a dual triode (6SN7), and a phase inverter give this amplifier a linear reproduction equal to amplifiers selling for ten times this price. Every part supplied: punched and formed chassis, transformers (including quality output to 3-8 ohm voice coil), tubes, controls, and complete instructions. Add postage for 20 lbs.

SHOW THIS TO YOUR BUTCHER .. LESS THAN 14¢ per LB.



MOTOROLA 20-28 MC .. SCR-510 F-M TRANSMITTER-RECEIVER

Here's a buy to throw the radio experimenter into a fit of ecstasy for weeks. Enough equipment to clutter your whole house and give your wife grounds for divorce. Sealed up in lead boxes by the army with enough lead to warm a junk dealer's heart. Includes over 40 new tubes 2 TS13 French-type handsets, 6 or 12Volt vibrator power supply, antenna mast, mast base for jeep mounting, connecting cables, instruction books, metal carrying cases, etc. etc.

A mobile FM unit covering the FM police networks with slight change. Vibrator power supply operates from either 6 or 12 volts at 3 amps. Quantity limited.

Shipping weight 180 lbs.

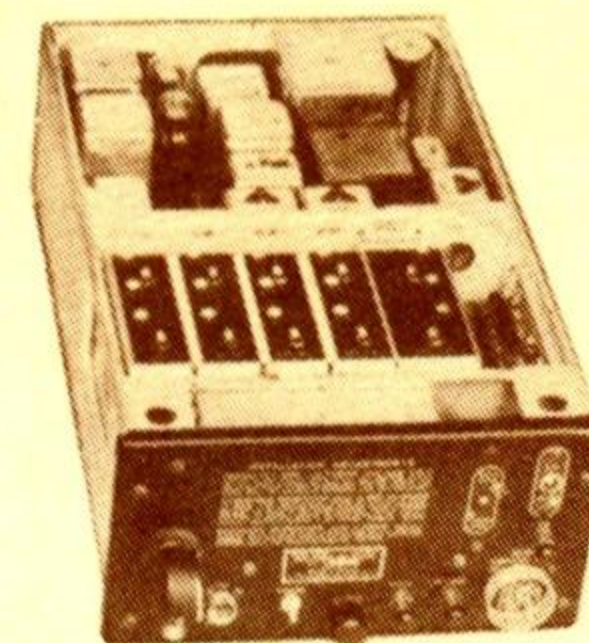
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**FOR POLICE OR
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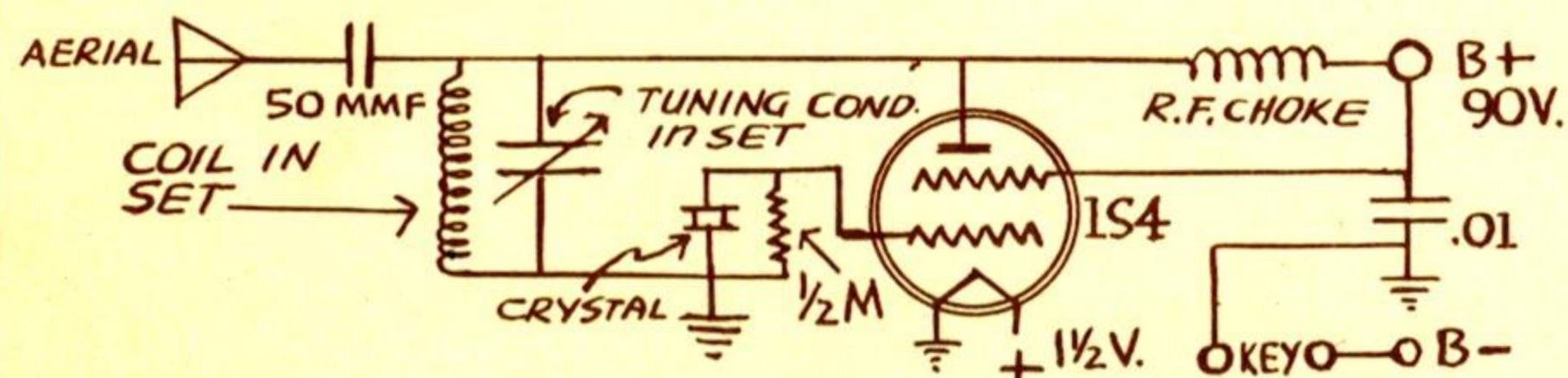


Broadcast band coverage with 15 six volt tubes, 5 gaud condensers, two stages RF, electric motor driven band switch, etc. Can be converted to powerful home receiver. Used, with slightly battered cases, but insides like new. Tubes included if you're lucky, but please do not specify with tubes. Only 50 available.

Shipping weight . . .60 lbs.

CONVERTING BC 746 TUNING UNIT to MIDGET TRANSMITTER

The BC 746 Tuning Unit makes an excellent midget CW 80 meter transmitter. The output is 1 Watt and working distances up to 500 miles have been reported. We intend publishing plans for converting the 746 to a companion receiver in an early Flyer.



A complete kit is available for building this transmitter, the BC 746, 1S4 tube and socket, 80 meter crystal, crystal socket, RF choke, by pass condensers, with complete instructions and blue-prints. Shipping wt. 2 lbs. Only \$3.95.

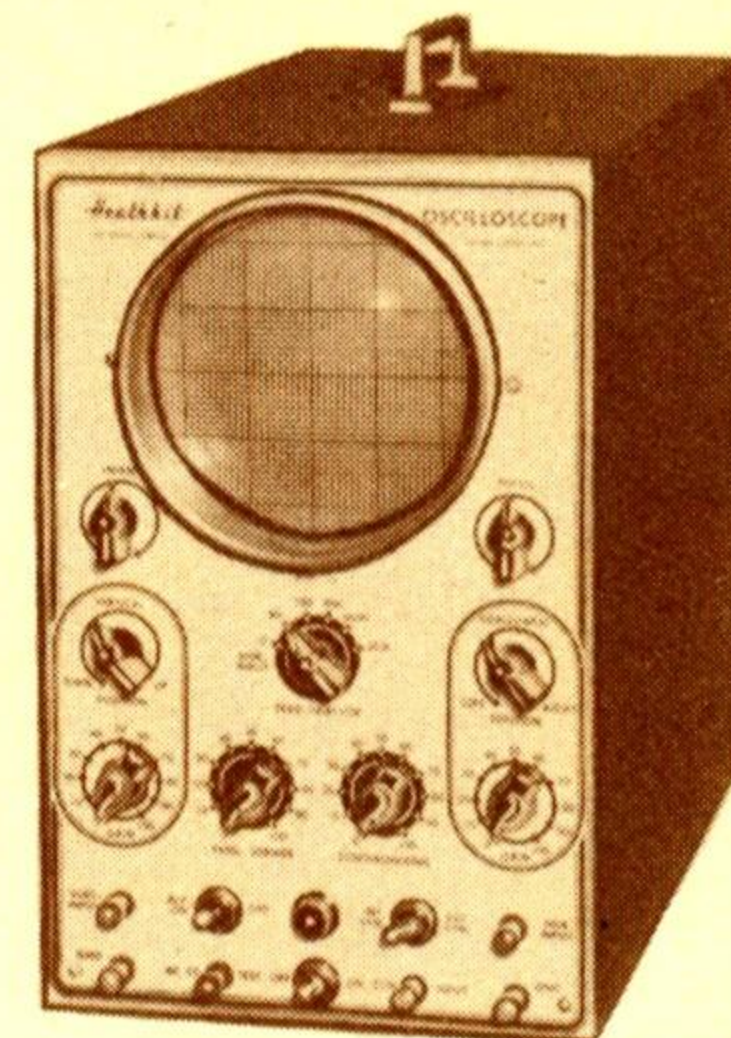
The only accessories required are batteries & key.

Key, shipping wt. 1 lb.....\$1.00

Set of batteries for midget transmitter,
shipping wt. 4 lbs..... 3.25

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